## PATENT COOPERATION TREATY

# **PCT**

### INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

(Chapter II of the Patent Cooperation Treaty) (PCT Article 36 and Rule 70)

	REC'D	29	SEP	2005
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Applicant's or agent's file reference R-88	FOR FURTHER AC	CTION	See Form PCT/IPEA/416	·
International application No. PCT/JP2004/017117	International filing date (		Priority date (day/mont)	
International Patent Classification (IPC) of Int.Cl. H05K7/20, F25D17/	national classification 02, H01L23/5	and IPC 0		
Applicant SHOWA DENKO K.K.				
and/or sheets con Administrative In sheets which sup beyond the discle Supplemental Box b. a total of (indicate type ar	f 3 sheets, ANNEXES, comprising theets, as follows: cription, claims and/or detaining rectifications austructions). crisede earlier sheets, but sure in the internationals.  and number of electronic	t according to Article including this cover ng:  brawings which have the thorized by this Authority the which this Authority application as filed, carrier(s))	36.	pasis of this report Section 607 of the endment that goes Box No. I and the
Supplemental Box Relating 4. This report contains indications relations.	ng to Sequence Listing (	see Section 802 of the	Administrative Instruction	ns).
Box No. I Basis of the r Box No. II Priority Box No. III Non-establish Box No. IV Lack of unity Box No. V Reasoned state citations and Box No. VI Certain documents Box No. VII Certain defections	eport  ment of opinion with r  of invention ement under Article 35( explanations supporting	egard to novelty, inve  (2) with regard to nove  g such statement  oplication	ntive step and industrial ap	
Date of submission of the demand		Date of completion of this report		
30.05.2005	-		16.09.2005	
Name and mailing address of the IPEA/JP		Authorized officer		3M 9037
<b>Japan Patent Office</b> 3-4-3, Kasumigaseki, Chiyoda-ku, Tokyo		KANZAKI T		377

## INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.
PCT/JP2004/017117

Box N	o. I	Basis of the report
1. W		d to the language, this report is based on the international application in the language in which it was filed, unless indicated under this item.
1	This	report is based on translations from the original language into the following language
	which	h is the language of a translation furnished for the purposes of:
	<u> </u>	international search (under Rules 12.3 and 23.1(b))
	<u> </u>	publication of the international application (under Rule 12.4) international preliminary examination (under Rules 55.2 and/or 55.3)
	·	prominantly examination (under Rules 35.2 and/or 55.3)
2. W	ith regard	d to the elements of the international application, this report is based on (replacement sheets which have been
Ju	msneu i	o the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed".
an	id are no	t annexed to this report):
V	the in	ternational application as originally filed/furnished
Г		escription:
		occupation.
	pages pages*	as originally filed/furnished
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g		received by this Authority on
,	the cla	ims:
	pages	as originally filed/furnished
	pages*	as amended (together with any statement) under Article 19
	pages*	received by this Authority on
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1	the dra	wings:
	pages	as originally filed/furnished
	pages*	received by this Authority on
	pages*	received by this Authority on
<b>****</b>	a ceau	ongo lighing and discountry of the state of
,	a scque	ence listing and/or any related table(s) - see Supplemental Box Relating to Sequence Listing.
3. 🗂	The am	endments have resulted in the cancellation of:
,	***************************************	
	0.00000	he description, pages
		he claims, Nos.
		he drawings, sheets/figs
		he sequence listing (specify):
	T a	ny table(s) related to sequence listing (specify):
I. J	This rep	port has been established as if (some of) the amendments approved to this report and the last of
	(Rule 70	and have been considered to go beyond the disclosure as filed as indicated in the day to
	T th	ne description, pages
	T th	ne description, pagesne claims, Nos.
	5000m	
		e sequence listing (specify):
		ny table(s) related to sequence listing (specify):
If item	4 applies,	, some or all of those sheets may be marked "superseded."

#### INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.
PCT/JP2004/017117

Statement	*	•	
Novelty (N)	Claims Claims	1-33	YES NO
Inventive step (IS)	Claims Claims	1-33	YES NO
Industrial applicability (IA)	Claims Claims	1-33	YES NO
Citations and explanations(Rule 70.	7)		

- D1 = JP 2003-78271 A (HITACHI SEISAKUJO K.K.) 2003.03.14, Fig. 10-15 &US 2003/161100 A1 &WO 03/28422 A1 &CN 1455952 T
- D2 = JP 2000-22376 A (MITSUBISHI DENKI K.K.) 2000.01.21, Fig. 12 &US 6097597 A
- D3 = JP 2000-2493 A ( FURUKAWA DENKI KOGYO K.K.) 2000.01.07, Fig. 5-6 (Family: none)
- D4 = JP 2003-185369 A (SONY K.K.) 2003.07.03, Fig. 1 (Family: none)

The subject matter of claim 1-33, particularly, "the bottom plate being provided with a baffle plate formed along the entire circumference of an inner peripheral edge thereof defining the through hole and slanting upwardly toward a central portion of the hole", is neither disclosed in any of the documents cited in the ISR nor obvious to a person skilled in the art.